
P. J. GIBLIN

Graphs, Surfaces and Homology

CHAPMAN AND HALL
SECOND EDITION

Graphs Surfaces And Homology An Introduction To Algebraic Topology

**Rodrigo Rojas Moraleda, Nektarios
Valous, Wei Xiong, Niels Halama**



Graphs Surfaces And Homology An Introduction To Algebraic Topology:

Graphs, Surfaces and Homology P. Giblin, 2013-06-29 viii homology groups A weaker result sufficient nevertheless for our purposes is proved in Chapter 5 where the reader will also find some discussion of the need for a more powerful invariance theorem and a summary of the proof of such a theorem Secondly the emphasis in this book is on low dimensional examples the graphs and surfaces of the title since it is there that geometrical intuition has its roots The goal of the book is the investigation in Chapter 9 of the properties of graphs in surfaces some of the problems studied there are mentioned briefly in the Introduction which contains an informal survey of the material of the book Many of the results of Chapter 9 do indeed generalize to higher dimensions and the general machinery of simplicial homology theory is available from earlier chapters but I have confined myself to one example namely the theorem that non orientable closed surfaces do not embed in three dimensional space One of the principal results of Chapter 9 a version of Lefschetz duality certainly generalizes but for an effective presentation such a generalization needs cohomology theory Apart from a brief mention in connexion with Kirchhoff's laws for an electrical network I do not use any cohomology here Thirdly there are a number of digressions whose purpose is rather to illuminate the central argument from a slight distance than to contribute materially to its exposition

Graphs, surfaces and homology : an introduction to algebraic topology Peter J. Giblin, 1981 *Graphs, Surfaces and Homology* P. J. Giblin, 1977-01-01

Graphs, Surfaces and Homology Peter Giblin, 2010-08-12 Homology theory is a powerful algebraic tool that is at the centre of current research in topology and its applications This accessible textbook will appeal to mathematics students interested in the application of algebra to geometrical problems specifically the study of surfaces sphere torus Mobius band Klein bottle In this introduction to simplicial homology the most easily digested version of homology theory the author studies interesting geometrical problems such as the structure of two dimensional surfaces and the embedding of graphs in surfaces using the minimum of algebraic machinery and including a version of Lefschetz duality Assuming very little mathematical knowledge the book provides a complete account of the algebra needed abelian groups and presentations and the development of the material is always carefully explained with proofs given in full detail Numerous examples and exercises are also included making this an ideal text for undergraduate courses or for self study

Graphs, Surfaces, and Homology P. J. Giblin, 2010 An elementary introduction to homology theory suitable for undergraduate courses or for self study

Graphs, Surfaces and Homology P. Giblin, 2014-01-15

Computational Topology for Biomedical Image and Data Analysis Rodrigo Rojas Moraleda, Nektarios Valous, Wei Xiong, Niels Halama, 2019-07-12 This book provides an accessible yet rigorous introduction to topology and homology focused on the simplicial space It presents a compact pipeline from the foundations of topology to biomedical applications It will be of interest to medical physicists computer scientists and engineers as well as undergraduate and graduate students interested in this topic Features Presents a practical guide to algebraic topology as well as persistence homology Contains application examples in the field of

biomedicine including the analysis of histological images and point cloud data *Topological Theory of Graphs* Yanpei Liu, 2017-03-06 This book introduces polyhedra as a tool for graph theory and discusses their properties and applications in solving the Gauss crossing problem The discussion is extended to embeddings on manifolds particularly to surfaces of genus zero and non zero via the joint tree model along with solution algorithms Given its rigorous approach this book would be of interest to researchers in graph theory and discrete mathematics **Surface Topology** P A Firby, C F Gardiner, 2001-06-01 This updated and revised edition of a widely acclaimed and successful text for undergraduates examines topology of recent compact surfaces through the development of simple ideas in plane geometry Containing over 171 diagrams the approach allows for a straightforward treatment of its subject area It is particularly attractive for its wealth of applications and variety of interactions with branches of mathematics linked with surface topology graph theory group theory vector field theory and plane Euclidean and non Euclidean geometry Examines topology of recent compact surfaces through the development of simple ideas in plane geometry Contains a wealth of applications and a variety of interactions with branches of mathematics linked with surface topology graph theory group theory vector field theory and plane Euclidean and non Euclidean geometry
Algebraic Topology Rafael Ayala, 2012-01-24 ALGEBRAIC TOPOLOGY An Introduction starts with the combinatorial definition of simplicial co homology and its main properties including duality for homology manifolds Then the geometrical facet of co homology via bordism theory is sketched and it is shown that the corresponding theory for pseudomanifolds coincides with the homology obtained from the singular chain complex The classical applications of co homology theory are included Degree and fixed point theory are presented with their extensions to infinite dimensional spaces The book also contains a geometric approach to the Hurewicz theorem relating homology and homotopy The last chapter exploits the algebraic invariants introduced in the book to give in detail the homotopical classification of the three dimensional lens spaces Each chapter concludes with a generous list of exercises and problems many of them contain hints for their solution Some groups of problems introduce a topic not included in the basic core of the book **International Journal of Mathematical Combinatorics, Volume 1, 2011** Linfan Mao, The mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences **Electromagnetic Theory and Computation** Paul W. Gross, P. Robert Kotiuga, 2004-06-14 This book explores the connection between algebraic structures in topology and computational methods for 3 dimensional electric and magnetic field computation The connection between topology and electromagnetism has been known since the 19th century but there has been little exposition of its relevance to computational methods in modern

topological language This book is an effort to close that gap It will be of interest to people working in finite element methods for electromagnetic computation and those who have an interest in numerical and industrial applications of algebraic topology

Functional Calculus Kamal Shah,Baver Okutmuştur,2020-06-17 The aim of this book is to present a broad overview of the theory and applications related to functional calculus The book is based on two main subject areas matrix calculus and applications of Hilbert spaces Determinantal representations of the core inverse and its generalizations new series formulas for matrix exponential series results on fixed point theory and chaotic graph operations and their fundamental group are contained under the umbrella of matrix calculus In addition numerical analysis of boundary value problems of fractional differential equations are also considered here In addition reproducing kernel Hilbert spaces spectral theory as an application of Hilbert spaces and an analysis of PM10 fluctuations and optimal control are all contained in the applications of Hilbert spaces The concept of this book covers topics that will be of interest not only for students but also for researchers and professors in this field of mathematics The authors of each chapter convey a strong emphasis on theoretical foundations in this book

Algorithms - ESA 2010 Mark de Berg,Ulrich Meyer,2010-08-30 This book constitutes the proceedings of the 18th Annual European Symposium on Algorithms held in Liverpool UK in September 2010

A Short Course in Computational Geometry and Topology Herbert Edelsbrunner,2014-04-28 This monograph presents a short course in computational geometry and topology In the first part the book covers Voronoi diagrams and Delaunay triangulations then it presents the theory of alpha complexes which play a crucial role in biology The central part of the book is the homology theory and their computation including the theory of persistence which is indispensable for applications e g shape reconstruction The target audience comprises researchers and practitioners in mathematics biology neuroscience and computer science but the book may also be beneficial to graduate students of these fields

Computational Geometry in C Joseph O'Rourke,1998-10-13 This is the revised and expanded 1998 edition of a popular introduction to the design and implementation of geometry algorithms arising in areas such as computer graphics robotics and engineering design The basic techniques used in computational geometry are all covered polygon triangulations convex hulls Voronoi diagrams arrangements geometric searching and motion planning The self contained treatment presumes only an elementary knowledge of mathematics but reaches topics on the frontier of current research making it a useful reference for practitioners at all levels The second edition contains material on several new topics such as randomized algorithms for polygon triangulation planar point location 3D convex hull construction intersection algorithms for ray segment and ray triangle and point in polyhedron The code in this edition is significantly improved from the first edition more efficient and more robust and four new routines are included Java versions for this new edition are also available All code is accessible from the book's Web site <http://cs.smith.edu/orourke/> or by anonymous ftp

Handbook of Discrete and Computational Geometry, Second Edition Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2004-04-13 While high quality books and

journals in this field continue to proliferate none has yet come close to matching the Handbook of Discrete and Computational Geometry which in its first edition quickly became the definitive reference work in its field But with the rapid growth of the discipline and the many advances made over the past seven years it s time to bring this standard setting reference up to date Editors Jacob E Goodman and Joseph O Rourke reassembled their stellar panel of contributors added many more and together thoroughly revised their work to make the most important results and methods both classic and cutting edge accessible in one convenient volume Now over more than 1500 pages the Handbook of Discrete and Computational Geometry Second Edition once again provides unparalleled authoritative coverage of theory methods and applications Highlights of the Second Edition Thirteen new chapters Five on applications and others on collision detection nearest neighbors in high dimensional spaces curve and surface reconstruction embeddings of finite metric spaces polygonal linkages the discrepancy method and geometric graph theory Thorough revisions of all remaining chapters Extended coverage of computational geometry software now comprising two chapters one on the LEDA and CGAL libraries the other on additional software Two indices An Index of Defined Terms and an Index of Cited Authors Greatly expanded bibliographies

Using the Mathematics Literature Kristine K. Fowler, 2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics and details methods of access to primary literature sources of new research applications results and techniques Using the Mathematics Literature is the most comprehensive and up to date resource on mathematics literature in both print and electronic formats presenting time saving strategies for retrieval of the latest information

A First Course in Topology John McCleary, 2006 How many dimensions does our universe require for a comprehensive physical description In 1905 Poincare argued philosophically about the necessity of the three familiar dimensions while recent research is based on 11 dimensions or even 23 dimensions The notion of dimension itself presented a basic problem to the pioneers of topology Cantor asked if dimension was a topological feature of Euclidean space To answer this question some important topological ideas were introduced by Brouwer giving shape to a subject whose development dominated the twentieth century The basic notions in topology are varied and a comprehensive grounding in point set topology the definition and use of the fundamental group and the beginnings of homology theory requires considerable time The goal of this book is a focused introduction through these classical topics aiming throughout at the classical result of the Invariance of Dimension This text is based on the author s course given at Vassar College and is intended for advanced undergraduate students It is suitable for a semester long course on topology for students who have studied real analysis and linear algebra It is also a good choice for a capstone course senior seminar or independent study

The Four Corners of Mathematics Thomas Waters, 2024-12-02 The Four Corners of Mathematics A Brief History from

Pythagoras to Perelman describes the historical development of the big ideas in mathematics in an accessible and intuitive manner. In delivering this bird's-eye view of the history of mathematics, the author uses engaging diagrams and images to communicate complex concepts while also exploring the details of the main results and methods of high-level mathematics. As such, this book involves some equations and terminology, but the only assumption on the reader's knowledge is A-level or high school mathematics.

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